SEQUENCE LISTING

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Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIANGOSIS OF COLON CANCER

<130> 210121.550

<140> US
<141> 2001-08-07

<160> 85

<170> FastSEQ for Windows Version 4.0

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<222> 40
<223> Xaa = Any Amino Acid

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Trp Lys Thr Thr Val Leu Arg Xaa Pro Ser His
35 40

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Met Ala Ile Ser Arg Gln Ser Ile Tyr Thr Thr Gly Gln Arg Leu Gly
1 5 10 15
Gly Thr Ser Pro Arg Gln Met Met Ala Pro His Pro Leu Cys Phe Leu
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35 40 45
Asn Phe Leu Leu Ser Pro Phe Met Ala Gln Val Gly Gly Met Met Pro

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Leu Leu Gln Thr Arg Arg Gln Gly Ser Phe Pro Gly Leu Ser Ser Ser
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<222> 6, 24, 29, 47
<223> Xaa = Any Amino Acid

<400> 3

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Pro Ala Arg Ala Gly Pro Leu Glu Arg Ala Lys Phe Cys Arg Xaa Pro
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Ile
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<220>
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<222> 67, 78
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<400> 4

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 1               5                  10                  15
Ala Asn Ser Ala Asp Ile His His Thr Gly Gly Arg Ser Ser Met His
            20                  25                  30
Leu Glu Gly Pro Ile Arg Pro Ile Val Ser Arg Ile Thr Ile His Trp
        35                  40                  45
Pro Ser Phe Tyr Asn Val Val Thr Gly Lys Thr Leu Arg Tyr Pro Asn
    50                  55                  60
Phe Asn Xaa Leu Ala Ala Thr Ser Pro Leu Phe Ala Gln Xaa Gly
65                  70                  75
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<223> Xaa = Any Amino Acid

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            20   25   30
Phe Arg Phe Leu Pro Leu Pro Phe Ser Pro Arg Phe Gly Gly Xaa Ser
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Pro Val Lys Leu Leu Lys Ser Gly Gly Leu
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<213> Homo sapiens

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<222> 40
<223> Xaa = Any Amino Acid

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Gly Ser Ala Gln Arg Val Glu Tyr Lys Lys Leu Asn Cys Val Asn Thr
            20   25   30
Trp Lys Thr Thr Val Leu Arg Xaa Pro Ser His
        35   40

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<211> 39
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<213> Homo sapiens

<220>
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<222> 2, 13, 15, 17, 23, 32
<223> Xaa = Any Amino Acid

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Met Xaa Ile Pro Leu His Ser Ile Pro Phe His Cys Xaa Pro Xaa Ala
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Xaa His Tyr Ile Arg Ile Xaa Ser Ile Gln Leu Pro Tyr Ser Pro Xaa
            20   25   30
His Ser Ile Pro Phe Gly Val
        35

<210> 8
<211> 43
<212> PRT
<213> Homo sapiens

<400> 8
Met Phe Gly Glu Ile Pro Met Glu Lys Arg Glu Thr Cys Arg Arg Thr
 1   5   10   15
Ser Asn Lys Val Asn Val His Ala Gln Gly Leu Leu Lys Phe Gln Cys
            20   25   30
Val Asn Phe Leu Leu Ala Tyr Thr Lys Ile Lys
        35   40

<210> 9
<211> 90
<212> PRT
<213> Homo sapiens

<400> 9
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            20   25   30
Ser Leu Gly Leu Gly Thr Leu Arg Gly Glu Asn Glu Ala Ile Arg His
        35   40   45
Pro Leu Gly Pro Cys Phe Gln Val Ser Leu Ser Pro Leu Pro Ala Phe
    50   55   60
Phe Pro Ala Leu Ser Pro Lys Leu Pro Pro Gly Arg Glu Lys Arg Pro
65   70   75   80
Gly Ala Lys Asn Glu Pro Phe Ser Ser Thr
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<210> 10
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 36, 42, 48
<223> Xaa = Any Amino Acid

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            20   25   30
Ser Cys Arg Xaa Ile Pro Gly Pro Gly Xaa Glu Met Pro Asn Leu Xaa
        35   40   45
Tyr Leu Thr Glu Gly Leu

50

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acagccacag aactaatcat attttatatc ttcttcgaaa ccacacttat ccccaccttg 240
gctatcatca cccgatgagg caaccagcca gaacgcctga acgcaggcac atacttccta 300
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ctaggctcac taaacattct actactcact ctcactgccc aagaactatc aaactcctga 420
gccaacaact taatatgact agcttacaca atagctttta tagtaaagat acctctttac 480
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cctcggccgc gaccacgcta agggcg 566

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<211> 517
<212> DNA
<213> Homo sapiens

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cagagaccat agtgtagatt ttacaaaatc acttttaaa atctctgtat tgtgctcctc 180
aaatacctag agccagtctt tgcataaaat atcacagctt tatctataac cttaaaattc 240
tgcagcagcc taaagatatg gataagatat accaccactt gctattctga aatatatcta 300
ttaccatatc caacctaatg atagtatcta aaaaattctt tcttccatag gaagtctctg 360
acaagctgtt attcatttcc ttgacgttaa aagaatctgg ggccaacatt tgtattttat 420
cagaaaaaaa taaaaaaaaa gtttacctac catgttcata ttaagaacaa tgtctataca 480
agtcagttgt acctcggccg cgaccacgct aagggcg 517

<210> 13
<211> 411
<212> DNA
<213> Homo sapiens

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tgttttcaga tacagtatgt aaatacttgt aaaaaaattt gtataatttt gtgataatgt 120
agtttcccaa aaaaattatt tagaaggcat tatgttatta gtaaatgaga gcactgtata 180
gaactgttcc tattttctgc acttgccatt ccagctgcct ccactgtcca tacccacctc 240
attcatcctg tcacagaagg caggaaaact gggaacttta ccaaagtagc actcagcctg 300
agaggcctgt ataatcatgc ttttcaaact aaattcactt aaaaattaaa aagcagaatt 360
gaatatttta agcagcctca gtacctgccc gggcggccgc tcgaaagggc g 411

<210> 14
<211> 387
<212> DNA
<213> Homo sapiens

<400> 14
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gaagacagat ggtgcagcca cagttcgttt gatctccacc ttggtccctc tgccgaaagt 180
gagaggaagt tgcagacctg catgcaataa taatgtccaa catcctcagc ctccacccgg 240
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ggggcccgat tagagcccaa atagatcagg agctgtggag actgccctgg cttctgcagg 360
tacctgcccg ggcggccgct aagggcg 387

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<211> 524
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> 38, 70
<223> n = A,T,C or G

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atgaagccgn agctgaaatg aatgattcag gatattaatg agaaattctc acaaatgata 120
tgcatttagg aaatgatttt gctttcctta aatagttcga aggcttgaaa ataaactttt 180
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tcttacaaat gtagtataaa tgttatggat agatataagg aaatattggc atagtatagg 420
taattagtga aaagacacaa cttcacaaaa cacaataaaa gataaacatg aaactataac 480
actacttaaa aaatattacc tcggccgcga ccacgctaag ggcg 524

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<211> 373
<212> DNA
<213> Homo sapiens

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agtctgtccc caccttgtcg tcctccacca cacactgaat ctgtagcttc cggataccgt 180
agcccacggg caccagcttg gaagcccccc agaccagccc gtccagctgg atagagcgca 240
cacaggcctc cagctgggcc atgtccgtct catcatccca aggcttgaca tccagcagga 300
tggaggactt ggccaccagt gcaggcttct tggccttctt ctccgcgtac ctcggccgcg 360
accacgaagg gcg 373

<210> 17
<211> 472
<212> DNA
<213> Homo sapiens

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agcccaagac agatgatggc tccacaccca ctgtgcttcc tgactactca agtgacctac 180

gtgtggcttc cagtcaggaa actaccattt aactttctgc tcagcccttt catggctcag 240
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agcagttcct gggtggcact gtccccatga tctgaagcag acatgaaatt acaatacgct 360
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<210> 18
<211> 612
<212> DNA
<213> Homo sapiens

<400> 18
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gcaggaaaaa gtgcagagca ttaactataa ccctttttgac cagaaacttt atgtctataa 180
cgatggttac cttctgaatt atgatctttc tgtcttgcag aagccccagt aagctgttta 240
ggagttaggg tgaaagagaa aatgtttgtt gaaaaaatag tcttctccac ttacttagat 300
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ctcttcaggc gcattttgca ataaagtcta tctagggtgg gattgtcaga ggtctagggg 480
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ttaaggaact taaaactcag tatggcgtct agggattctt tgtacctgcc cgggcggccg 600
ctcgaaaggg cg 612

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<211> 547
<212> DNA
<213> Homo sapiens

<400> 19
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ttgtttcatg atttctcctc tctctctgat taaggcgttt atagaaaaaa gaactgaata 180
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agtctataat aacatcattt aaaaattctc cttcatttag acagtgcagg tcctcattgg 300
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caatgaagat ggtgtggttt tctccagttt cttcttcttc atcaaaaaac tgaaattctt 420
gtttgcttct aagttgtatt ttagattcaa atgatacagt tttaattttg ttttcctttt 480
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aagggcg 547

<210> 20
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 71
<223> n = A,T,C or G

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taactccttc atgcaataaa ctgaaaagag ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aagcttgtac ctcggccgcg accacgctaa gggcg 395

<210> 21
<211> 283
<212> DNA
<213> Homo sapiens

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<222> 39, 72, 111, 116, 259
<223> n = A,T,C or G

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<210> 22
<211> 414
<212> DNA
<213> Homo sapiens

<220>
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<222> 39, 69, 71
<223> n = A,T,C or G

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gcagcagatc atttcatatt gcttccgtgg agtgtggcga gtcagctaaa tactttgacg 180
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atagctcaga ccatacctat gtatccaaat acctcggccg cgaccacgct aagggcgaat 360
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<210> 23
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<213> Homo sapiens

<220>
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<222> 37, 67, 602
<223> n = A,T,C or G

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gggcatacca caaaatagcc tttagaacag atacccaatt ttacagttca taggacaaca 180
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<213> Homo sapiens

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<222> 69
<223> n = A,T,C or G

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catca 665

<210> 25
<211> 354
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 24, 320
<223> n = A,T,C or G

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gtggtcgcgg ccgaggtggc atancctagc ctgtgaggaa cctagttagg aaagacaact 60
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cagtagcaaa aagaatcttg gggattttcc atctgacttc cctggccatc ttatcccatc 180
cttgcactac cagaagattc atacactttt gagactccag tgagacgctg ttttcacccc 240
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<210> 26

<211> 616
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 313
<223> n = A,T,C or G

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gattattttt ccttttgaa gtagattcgc cacaatcaaa tttgaataca gagaattttg 180
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tgacatcaca aggccgccaa gtgcctgttt ttctagaact aggagttggt gaggtttggg 540
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ccgggcgggc cgctcg 616

<210> 27
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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 74, 97, 194
<223> n = A,T,C or G

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taatatgagg ggtnaattaa taacaacaac acaacancgg caacaatatt aataataaca 120
agagctctcc cattggccca cggccttcct ccagctttc tcttctgctt cacacaactt 180
tgtgagatag ctgntttcat agctgggaaa actgaggccc 220

<210> 28
<211> 368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 346, 357
<223> n = A,T,C or G

<400> 28
aattcgccct tagcgtggtc gcggccgagg tacacagcac attctcttaa gagaaaacag 60
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ggaatcatcc tatctttatt ctcagaaatc caatgttgaa tatcacagtt cttctttaat 240
ggaagcagaa gattcagagt ccttgtctcc caaaatgcct cagccagggt cagcacagag 300

agtggaatat aaaaagctta attgtgttaa tacatggaag acaacngttc tcaggcnacc 360
tagccaca 368

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<212> DNA
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<221> misc_feature
<222> 38, 39, 70, 72
<223> n = A,T,C or G

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atcctcagca tcagtttgct aaattgccag gctcaatgac aagctctcct gccatctcca 180
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tcctggagta tatcactctt gcttc 265

<210> 30
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<212> DNA
<213> Homo sapiens

<220>
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<222> 38, 39, 72, 179
<223> n = A,T,C or G

<400> 30
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aagcctttag gngtgtttct tgaactataa agaaaacaaa ttttggcagt ctttaagtat 120
atatagctta aaatataatt tttagcattt ggcaccatat gtatgccatt atatttgant 180
ttgcattact gtttc 195

<210> 31
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<220>
<221> misc_feature
<222> 228, 255, 268
<223> n = A,T,C or G

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aattcgccct tagcgtggtc gcggccgagg tactcacttt ttccaaatga tcctagtaat 60
tgcctagaaa tatctttctc ttacctgtta tttatcaatt tttcccagta tttttatacg 120
gaaaaaattg tattgaaaac acttagtatg cagttgataa gaggaatttg gtataattat 180
ggtgggtgat tatttttat actgtatgtg ccaaagcttt actactgngg aaagacaact 240
gttttaataa aaganttaca ttccaaanaa aaaaaaaaaa aaaaa 285

<210> 32

<211> 609
<212> DNA
<213> Homo sapiens

<400> 32
aattcgccct tagcgtggtc gcggccgagg tactagcttt ccaagtgaga catgttatac 60
ccagtagact cggtataatt tctgacagcc aaatgtatcc caatttcact cagtagggct 120
gccaggagat gggtagggat acaaacaaaa tcatctactt tatcaatctt ttttttttc 180
atggattttt tcccccattg gctttcaaag caagtgagat aaacagcgtt actggcagat 240
attggtcata aataacatct tcccaaagcc caacagtcaa aaaacaaaca ccaaatataa 300
gcagattagg cagatttcct aaatattcag ttaaggctat ggtgtgcttg gttttgacca 360
gagcaattct atggcttcct tttatttttc tccctggata aaactatgct tacttgatcc 420
atgcaatttc agttgttaca gctttaactt ataagatcaa aggaattaaa aagttgtcag 480
aatagatttt caaataatga caaaaactga cataaagtct acacagaact gacataaagt 540
ctacacagtc ctcagggata tggataaaac aaatgaagtt tcatgactgg aaggggctc 600
ccttctaag 609

<210> 33
<211> 543
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 451, 509, 537
<223> n = A,T,C or G

<400> 33
aattcgccct tagcgtggtc gcggccgagg tactttantt ctcctttcct catcagggct 60
aaaactgcta ttgttgctca agtctgaatc gctgtgaata tagtgaagag tggagtccat 120
attctcaaca gcatcgctga ttaaaggcac agaatcttct tgatttattt tacaatttgg 180
tagctcattt atatccagtt catcttgcaa atcacttctc ttttctatac tgatggtctc 240
ttcatgtgca tccaggctgg aagcacgtag tgcagcggac agcacttcca cttgtgcttt 300
aacatctgga tcatcaatgt ggggctctag attttctatc atttcttcca gttccttttct 360
ggtggccatg gtgatgtttg gagaactggg cacagggccc tcagattctt cctctggtcc 420
ctctgggctg ggttttcccc cagagttctg ntcaagctct atgtctagat ctatttcagg 480
aagaggagtc ctccagaaat ggaaggagnt atacaattcc tgatctaaga gagctgnatc 540
ttg 543

<210> 34
<211> 259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 234, 255
<223> n = A,T,C or G

<400> 34
aattcgccct tagcgtggtc gcggccgagg tacctactgt gtgctttcta ctatcagcca 60
tcaaaaagaa tgataaaagt ccacagcata ggaatctgtt catctgagtg ttctgccaaa 120
aaatacagta attacaagta gtgtcaccat cagtgacaag ggcagggaag actatttttc 180
ctttttttcc caacttattc aaatacttaa acctcttcta tttcgagttc aaangaggta 240

aacatacaac ctcanaggt 259

<210> 35
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 69, 70, 255, 280, 328, 337
<223> n = A,T,C or G

<400> 35
aattcgccct tagcgtggtc gcggccgagg taccacanta tcttcctcct tctgcggtct 60
ctctgtttnn gtcttgctta tgcttcttca actctgcgcc tggataactt tcatgttaat 120
ccattctgag tcatttgttc ttcttggcct gtcaagacac ccaaaaaagg ccaagctgtt 180
cacccaggga gccatactgg cacattcctt ctgcgcttga taatatctgt caattccctt 240
cagccaggga ccagncactt taggctatta gcctgcaggn catttagaag atttaagtaa 300
atatctgatt tgaggaacct gggataanag tcctttncca taagag 346

<210> 36
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 698, 765, 769, 776, 792, 817
<223> n = A,T,C or G

<400> 36
aattcgccct tagcgtggtc gcggccgagg tacgtaggat taacaggtta taacagcttt 60
gcattatcac atgttgctaa gccaagggtg ttcctcaaac ttctctttcc tgcacttctg 120
gtaatcttct tcccctcatc cccccaggcc tgaggtttga tattctcaaa taatgtggta 180
ggctcattcc tggctagctt tttgctggca agaataatct ctccctcaaa gtgttcaggt 240
taactcttct aaaacatctc atattagtct acaccagata tagtcttcct tctagatata 300
ttagagttga ccaagtcttt ccctaaaagg ataattatat aaaagagtag gaacaaaggt 360
agtcatttct ctcccattct gagaattaca tcttttaaca catgggcaaa atttaagaca 420
aagacattca ttcattcttg ataaacaagc tactcggtgg tgaagtgagg aggtggaaaa 480
gggcaatgct gagtagaaga acatacgttt tcttctacac acacattaac agatttcatc 540
tcatctagac tagaagaggg ttaatgggac aagtgaaaga atcctctcca ccccattgtg 600
aaaagcaaag tagctcctct agcaaatatg cttcagaatt aagtctgatg ctcagaacac 660
tcagatcaaa ttatccttta ttaaaatgaa gcaccagnca agtataggaa aaaaaataaa 720
gggaacttca tctctcacat acaaaacgta cctggcccgg gcggnccgnt cgaaangggc 780
gaaattctgc angatatcca ttcaacactg ggcgggnccg cttcgaacca tgcc 834

<210> 37
<211> 613
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 39, 550, 556, 576

<223> n = A,T,C or G

<400> 37
aattcgccct tagcgtggtc gcggccgagg taccgccnnc tctctgctct ccacagggct 60
ccccgcccca cccggcctga taaagcgcgc cgactgggct acaaggccaa gcaaggttac 120
gttatatata ggattcgtgt tcgccgtggt ggccgaaaac gcccagttcc taagggtgca 180
acttacggca agcctgtcca tcatggtgtt aaccagctaa agtttgctcg aagccttcag 240
tccgttgcag aggagcgagc tggacgccac tgtggggctc tgagagtcct gaattcttac 300
tgggttggtg aagattccac atacaaattt tttgaggtta tcctcattga tccattccat 360
aaagctatca gaagaaatcc tgacacccag tggatcacca aaccagtcca caagcacagg 420
gagatgcgtg ggctgacatc tgcaggccga aagagccgtg gccttggaaa gggccacaag 480
ttccaccaca ctattggtgg ctctcgccgg gcagcttggg agaaggcgca atactctcca 540
gctccaccgn taccgntaat ataagtaaaa gtttgnaaaa attcatactt aataaacaat 600
ttaggacagg tca 613

<210> 38
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41, 70
<223> n = A,T,C or G

<400> 38
aattcgccct tagcgtggtc gcggccgagg tatgcccttt ncctaacact cacaacaaaa 60
ctaactaatn ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 120
gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 180
gtcaacgatc cctcccttac catcaaatca attggccacc aatggtactg aacctacgag 240
tacaccgact acggcggact aatcttcaac tcctacatac ttcccccatt attcctagaa 300
ccaggcgacc tgcgactcct tgacgttgac aatcgagtag tactcccgat tgaagccccc 360
attcgtataa taattacatc acaagacgtc ttgcactcat gagctgtccc cacattaggc 420
ttaaaaacag atgcaattcc cggacgtcta aaccaaacca ctttcaccgc tacacgaccg 480
ggggtatact acggtcaatg ctctgaaatc tgtggagcaa accacagttt catgcccatc 540
gtcctagaat taattccccc aaaaatcttt gaaatagggc ccgtatttac cctatagcac 600
cccctctacc ccctctagag cc 622

<210> 39
<211> 568
<212> DNA
<213> Homo sapiens

<400> 39
aattcgccct tagcgtggtc gcggccgagg tggagttctt gcaagtcggc caggatgtct 60
caggctgagt ttgagaaagc tgcagaggag gttaggcacc ttaagaccaa gccatcggat 120
gaggagatgc tgttcatcta tggccactac aaacaagcaa ctgtgggcga cataaataca 180
gaacggcccg ggatgttgga cttcacgggc aaggccaagt gggatgcctg gaatgagctg 240
aaagggactt ccaaggaaga tgccatgaaa gcttacatca acaaagtaga agagctaaag 300
aaaaaatacg ggatatgaga gactggattt ggttactgtg ccatgtgttt atcctaaact 360
gagacaatgc cttgtttttt tctaataccg tggatggtgg gaattcggga aaataaccag 420
ttaaaccagc tactcaaggc tgctcaccat acggctctaa cagattaggg gctaaaacga 480
ttactgactt tccttgagta gtttttatct gaaatcaatt aaaagtgtat ttgttacttt 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaa 568

<210> 40
<211> 83
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 42, 65
<223> n = A,T,C or G

<400> 40
aattcgccct tagcgtggtc gcggccgagg tgttcgtgac angatcaagc gtgctttcct 60
tatcnagggg gggaaaatcg ttg 83

<210> 41
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 679, 728, 730
<223> n = A,T,C or G

<400> 41
aattcgccct ttcgagcggc cgcccgggca ggtaccattt gcctcccggg ctcaagcgat 60
tctcctgcct cagcctccca agtagctggg attacaggca cctgccacca tgcccggcta 120
atttttgtaa ttttagtaga gacagggttt caccatgttg cccaggctgg tttcgaactc 180
ctgaccttag gtgatccacc cgcctcggcc tcccaaagtg ctgggattac aggcttgagc 240
ccccgcgccc agccatcaaa atgcctttta tttctgcata tgttgaatac tttttacaat 300
ttaaaaaaat gatctgtttt gaaggcaaaa ttgcaaatct tgaaattaag aaggcaaaaa 360
tgtaaaggag tcaaaactat aaatcaagta tttgggaagt gaagactgga agctaatttg 420
cattaaattc acaaactttt atactctttc tgtatataca ttttttttct ttaaaaaaca 480
actatggatc agaatagcca catttagaac actttttgtt atcagtcaat atttttagat 540
agttagaacc tggtcctaag cctaaaagtg ggcttgattc tgcagtaaat cttttacaac 600
tgcctcgaca cacataaacc tttttaaaaa tagacactcc ccgaagtctt ttgttcgcat 660
ggcacacact gatgcttana tgttccagta atctaatatg gccccagtaa gtcttgatga 720
cccaaagntn ctttttttte catctttaga aaactacatg gggaaccaaa caga 774

<210> 42
<211> 264
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 68, 70, 90, 95, 113, 124, 125, 126, 136, 140, 144, 147,
149, 154, 168, 178, 187, 191, 192, 209, 212, 238, 258
<223> n = A,T,C or G

<400> 42
aattcgccct ttcgagcggc cgcccgggca ggtacaanta tttgtaacac tggatgactc 60
ctgttgtngn tattttctat cttctctggn gcaangtatt ctccttgggc cancttgaaa 120

atgnnnttttt tacggncgan gatnttnana gttncattcg ggagccancg accaatgnct 180
cctgtgngaa nncagccatc actgtccang gnttcctgtg tcttctcagg gtccttcngg 240
tatcctttga acacggtngg cctc 264

<210> 43
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 40, 70, 337, 340, 369, 388
<223> n = A,T,C or G

<400> 43
aattcgccct ttcgagcggc cgcccgggca ggtacagntn gataatacta cctattttaa 60
actaaatatn gatgaacaaa cagcgttaaa aaccagaatc agggcttata aatagtgcag 120
aaaatgcaaa cgccaaaaaa acgatgcctc ctatgattgt cacagttctg acagagattt 180
tctgtgctat cattcttcct ccaattactg ccaatcccgt gcacaggcag tgccccacag 240
ttccacccac ggctacacca taggggtcct ggaagcaagc gtcacagcat taattcaaaa 300
ccaaggtgac aactgctgct tgagaaccat aacaatncan aagcactaaa aatggtggcc 360
aacaattana aagcataata gttataanaa tgcaggcgtg taataaattt atgaaaggcg 420
tcatggcctg ct 432

<210> 44
<211> 149
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 70, 72, 126, 144
<223> n = A,T,C or G

<400> 44
aattcgccct ttcgagcggc cgcccgggca ggtacattga ttttctttct aaaactttgc 60
tgaagttttn tntattagca gaaggagctt tgcggctgag actatggggt tttctagata 120
tagaancatg tcagcttcaa atanggata 149

<210> 45
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 70, 107, 431, 485, 518, 525, 531, 549, 575
<223> n = A,T,C or G

<400> 45
aattcgccct ttcgagcggc cgcccgggca ggtaccnttc cattccattc cataccattc 60
cattccaggn cattctattc cgttccattc cattcctttc cgttccnttc cgttccattc 120
cattccattc cattctattc gattaattcc attccattcc attccattcc attctattcc 180
attccattgc aatcgagttg aatccattgc atttcattcc attccattcc attccattcc 240

attccggaag tttccattcc attgcattcc attccattcg attccattcg attgcactcg 300
ggttgattcc attccattgc attccattcc attccattcc attccattcc attacattcc 360
attccattac attcggattg attctattca attcccttac actccattac attccattcc 420
attcgggtag nttccattcc attccattcc attcctctcc attccattgc actcgggttg 480
atgtncattc cattgcattc cattccattc cattgcgntc cattngcatt ncattacatt 540
cggattgant ctattcaact cccttactct ccatnacatt ccattccatt cggggtg 597

<210> 46
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 56, 70, 308, 362, 381, 387
<223> n = A,T,C or G

<400> 46
aattcgccct tcgagcggcc gcccgggcag gtaagccntg cgttgcgttc caaggnatct 60
gtgagcccgn ggagtataca ccatgagcaa agctcaccct cccgagttga aaaatgaaat 120
taaatggtgg cagacatgtc caaggaatat tgcggggatt tgatcccttt atgaaccttg 180
tgatagatga atgtgtggag atggcgacta gtggacaaca gaacaatatt ggaatggtgg 240
taatacgagg aaatagtatc atcatgttag aagccttgga acgagtataa ataatggctg 300
ttcagcanag aaacccatgt cctctctcca tagggcctgt tttactatga tgtaaaaatt 360
angtcatgta cctcggcggc naccacncta agggcgaatt ctgcagatat cc 412

<210> 47
<211> 690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 670
<223> n = A,T,C or G

<400> 47
aattcgccct ttcgagcggc cgcccgggca ggtggtaatc ccagctactc aggaggctga 60
gacaggagag tcgcttgaac ctgggagggc ggaggttgca gtgagccagg atcgtgccat 120
tgcactccag cctgggcaac aagagcgaaa ctcttgtctg aaaaaataaa gttcatccca 180
actttcaagt ctacaaaaac ataatccaaa tctaataaca tagttgtaaa tgagagcaac 240
aataaaaagt agacatgggc tgggtgcagt ggctcactcc tgtagtccca ggactttggg 300
aggccgaggt gggaagatcc cttgagccca ggagttcgag acaagcctgg gtaacacggg 360
gagacccgtc tttagtaaat aaaaataaat ttattaataa aactaaaaat ttaataataa 420
aaagtggaca ttgtttttta aaatgtgtat agtatgcatt ttaaagatag tgtcactgct 480
gtggaaaacc tgaacagaca gtatgatcca gaatgtcagg tgtggagttg ggcggacaag 540
agcctgctga tgaggacaac ctaaaagagc actggatttg gaatcagaag acctaccttt 600
gattcctggc tttcccttaa tggccatgtg atggtattaa gtcagcctct aaagctttag 660
tttcctgtcn gtcaaatgtt gacatgatac 690

<210> 48
<211> 697
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 475, 564, 618, 633, 656, 689
<223> n = A,T,C or G

<400> 48
aattcgccct tagcgtggtc ggcggccgag gtttgaattt ttatattgcg ctattgttat 60
gttttctgta attgtttata tctaaggaat ttttgaggta atataaaaga aaaagagaat 120
aatgaacaat gatgtcactg gagggttttt acattaaatt agatcatttt tcttcttatt 180
cacaataata atcttaatct ttaagaatta attataattt aatattataa ttcataatct 240
ttaagaatta ataattataa tttaatatta taattaataa tctttaagaa ttaataatat 300
aatttaatat tataattaat aatctttaag aattaataat tacaattaat aattaataat 360
aatcttaatc tttaagaatt aataataatc cttaatcgcg ataataatcg caaggaggag 420
aagtaagtcc ctcctccttc tgtatgaact tttctcccac atgctgctgt atggnttagt 480
gagagtgaag ttctaaagaa catcaatatg attggtggga taatccaaag acatttttc 540
agaatcaaat ggcatgtcga aggnttggtt cttgcatatg tatttactgg gtccacagcc 600
aaaataaagg tgaccacnta tacataggaa agntgaattt ggaccctgcc cgggcngggc 660
cgctcgaaag ggcgaaattc tgcagatanc ccatcac 697

<210> 49
<211> 341
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 69, 306, 312, 318, 327
<223> n = A,T,C or G

<400> 49
aattcgccct tgagcggccg cccgggcagg tacctgattg tgcagggcca gctcttccga 60
ggctccagnc tgcttttccg ccgggtgtca tcaggatcat gctttgccct ggagtaacct 120
gaatcatcta aaaaacacgg tctcaacctg gccaccgtgg gtgaggcctg accaccttgg 180
gacacctgca agacgactcc aacccaacaa caaccagatg tgctccagcc cagccgggct 240
tcagttccat atttgccatg tgtctgtcca gatgtggggt tgagcggggg tggggctgca 300
cccagngcat tnggtcancc gccagancta aaaacgcgac g 341

<210> 50
<211> 617
<212> DNA
<213> Homo sapiens

<400> 50
aattcgccct tgagcggccg cccgggcagg tacccattct gttttccccc agcaacgccc 60
ctccaaacct ccagcctccc tgtctccagc tgcctgggcc cggaagggct ttggttcctt 120
ctctgggtct gattttctca ctgaactcca ccgaccaact gccctaagcc cccagggcct 180
ccagggccca ggttcgagac ccaaaccccc aaaatccaaa acttctcttg aaaagttcag 240
ggaccgtcca ggggagatgg ggaggagata tggagtgagt cacctgctcc agaagatgcc 300
agcttctctc tccagggtgc ttagttggct ttgcccaccc ctcactcccc agggagctct 360
ggggacagcc tcctcacacc cctgtcccac ccacacagct gccctagctg accccgagaa 420
gtgctcttgg ctgacccctc tggtgtgtgg tgaggggctt tctcttcccc ttcctgtttc 480
agacccccca atttcccgca catggtgtgg ggggctgggg gaggtccaag cagagtgttt 540
tattattatc gctttatgtt tttggttatt ggtttttttg tatagaccaa agcaaagaaa 600

ataaaaataa cacagag 617

<210> 51
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 36, 269, 298, 311, 316, 318
<223> n = A,T,C or G

<400> 51
accantattt tttgaggatt ttgcacagtg taaaangaca taatcataga ttgctatggt 60
ttaggctgta tatacagtga aaactatggg ttttaaatgt ttggggaaat tcctatggaa 120
aaaagagaga catgtagaag aacctctaac aaggttaatg tgcatgccca aggtcttttg 180
aaatttcagt gtgtaaattt ccttttagct tatacaaaaa taaaataatt taaaagaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaang aaaaaaaaaa aaaaaaaaaa aaaaaaangc 300
ccctcggccg naaccncnct aagggc 326

<210> 52
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 61, 71, 93, 111
<223> n = A,T,C or G

<400> 52
aattcgccct ttgagcggcc gcccgggcag gtactcatac ttgatcgatt aatgaagtgg 60
ntattttggg ntttgcttga tattatcaac tcnctggcaa caacactatt natgctcacc 120
gta 123

<210> 53
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 271, 293, 305
<223> n = A,T,C or G

<400> 53
aattcgccct taggcgtggt cgcggccgag gtacaccaag cacctatttt tataacttag 60
cttcccatgg agagataatg gcttgcgtgc attttatgta tccataacat acatacaagg 120
ctcggtcttt tcaatgggat aacagttcac aactcttcga tttgaattgt aatgaatctg 180
gtgacaagga tttttctcta atggattcca aagttagcca gaacttttaa tgtcaagatg 240
aaaaagggtg taaggtgtta tattttcttc nattccttta ccacaggagg ctnactccac 300
aattngctca tgtttctcat tcagaa 326

<210> 54

<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 70, 498
<223> n = A,T,C or G

<400> 54
aattcgccct tagcgtgggt cgcggccgag gtactacgtt gtagcccact tccactatgt 60
cctatcaatn ggagctgtat ttgccatcat aggaggcttc attcactgat ttcccctatt 120
ctcaggctac accctagacc aaacctacgc caaaatccat ttcactatca tattcatcgg 180
cgtaaatcta actttcttcc cacaacactt tctcggccta tccggaatgc cccgacgtta 240
ctcggactac cccgatgcat acaccacatg aaacatccta tcatctgtag gctcattcat 300
ttctctaaca gcagtaatat taataatttt catgatttga gaagccttcg cttcgaagcg 360
aaaagtccta atagtagaag aaccctccat aaacctggag tgactatatg gatgcccccc 420
accctaccac acattcgaag aacccgtata cataaaatct agacaaaaaa ggaaggaatc 480
gaacccccca aagctggntt caagccaacc ccatgggccc ccatgacttt tttcaaaaaa 540
aaaaaaaaaa aaaaaaa 557

<210> 55
<211> 418
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39, 305, 325, 343
<223> n = A,T,C or G

<400> 55
aattcgccct ttcgagcggc cgcccgggag gtacagaant cagaggaaaa aagaaattaa 60
attttagctt tctggagagc agcccctctc tggcaccatc aaacacttct ttgtttccct 120
tcaacttgga actcttcaaa catcaggggt tgtgagggtt tggccattct tttatcttgg 180
gtccatgtga gtgacagaaa tggtgcggcc tgggaaagat ctccctcctt tacattttct 240
cttctccctc ctcctcctta ttctaaaact gtgcctccaa cagaggggca ggggctcttg 300
taganagatc cctggcccag gacangagat gccaaatcta atntatctca ctgagggcct 360
ttgagaaaaa cgcttcaggg ccaggctcag tggctcatgc ctatataatc ccagtacc 418

<210> 56
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 283, 304, 337, 348
<223> n = A,T,C or G

<400> 56
aattcgccct tgccgcccgg gcaggtacac agctgtcntg gaaagtcctg atggccacag 60
tgaaaaaggg catgggtgga gagaagcaaa gtaggaagga tcatttgaag cacaaacaaa 120
tggggaaact gaacagacaa tctcagtatc accacatctg cttcaaaaat agcacaccaa 180

ctcccttcca aagtgcatcg ttacactgca ccatcgtgga agaaatggaa gagcaggatg 240
gatttggctg gctggagtca catcttgggg aagctggcca ggntggcaat gccacaggcg 300
ttgntcttat ttcgagccat gaggatatat cctttgnttc cccagctntc tccccagctg 360

<210> 57
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 73, 82, 105, 147, 168, 191, 196, 204, 215, 218, 225, 227,
236, 253, 260, 266, 269, 280, 287, 309, 317, 321, 339, 349,
352, 355, 356, 363, 374, 391, 403
<223> n = A,T,C or G

<400> 57
aattcgccct tagcggcccg cccgggcagg tactcccttt tttgagaaac tttcttgaag 60
aacaccatag ggngctggtt gnagttgggg ctcaccactc ggacnaggta actcgttaat 120
ccacggtaac tcttaatgtt gcccagngtg aactcgccgg gctggcancc tgaaacaaaa 180
gtcctgatcc ngtagncaca cttnttttttc ctaancanga cggangngac attgcngctc 240
ttgttttctt tcnggtcatn gatggnggna tacatctttn gcgggtnttt gccttttctg 300
agaattgcnt tccctgncag ncctaccaca taccacttnc cctggaatng gntgnnctga 360
aanttctgct gcanagggac cttgctcaca ngcaggggct ggnatcaggt ctgacgtgga 420
gtcctggg 428

<210> 58
<211> 478
<212> DNA
<213> Homo sapiens

<400> 58
aattcgccct taaggcgtgg tcgcggctcg aggtacccca aatgggttgt gccattttca 60
cataaaaatt ggaatgataa tgaacaagtg aaagtgaaat cagtttccct cctttgttca 120
ataaacatgg ttagagcacc tgtgtgcaag atagtgggac aggtgctgag gggaaaggta 180
aagctgttta agctgtggcc ctgagctgaa ggagcaatct agcagtgcca tcaggccctg 240
cacactgcag agcacagtgt cccaggggcc aggtggaggg aaggatcact tccggctgca 300
gcatcaggga aggcactctg cagtctcccc tccaggttct cagcgtgcct ctatgcctgt 360
gtgactgctc agcctgcccc attccaggca cttgctcatc ttccttatct ttctctgtag 420
catgagaaat ggaagtttga gaggatagga tcctacctca caggtacctg cccgggcg 478

<210> 59
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 69, 72, 187, 366, 421, 448
<223> n = A,T,C or G

<400> 59
aattcgccct tcgagcggcg cccgggcagg tacagtgnta gctccccctg ggcaatacaa 60

tacaagaana gnggggttttg tcaaattgga acaaggaaac agaaccacag aaataaatac 120
attggttaac atcagattag ttcaggttac ttttttgtaa aagttaaagt agaggggact 180
tactgtntta tgctaactca agtagactgg aatctcctgt gttctttttt ttttaaattg 240
gttttaattt tttttaattg gatctatctt cttccttaac atttcagttg gagtatgtag 300
catttagcac cactggctca atgcgctcac ctaggtgaga gtgtgaccaa atcttaaagc 360
attagngcta ttatcagtta ccaccatttg gggcttttat ccttcatggg gtatgatggt 420
ntcctgagga cacatttctc tgagttcngt aat 453

<210> 60
<211> 407
<212> DNA
<213> Homo sapiens

<400> 60
aattcgccct tcgaccacca agcgaaacat cgcatcgagc gagcacgtac tcggatggaa 60
gccggtcttg tcgatcagga tgatctggac gaagagcatc aggggctcgc gccagccgaa 120
ctgttcgcca ggctcaaggc gcgcatgccc gacggcgagg atctcgtcgt gacccatggc 180
gatgcctgct tgccgaatat catggtggaa aatggccgct tttctggatt catcgactgt 240
ggccggctgg gtgtggcgga ccgctatcag gacatagcgt tggctacccg tgatattgct 300
gaagagcttg gcggcgaatg ggctgaccgc ttcctcgtgc tttacggtat cgccgctccc 360
gattcgcagc gcatcgcctt ctatcgcctt cttgacgagt tcttctg 407

<210> 61
<211> 486
<212> DNA
<213> Homo sapiens

<400> 61
aattcgccct tggccgcccg ggcaggtgtt cggaggtggt gcggagctcc tgtttgacgg 60
tattaagaaa catcgagtca ctttgcctgg acaggaggaa ccctgggaca tccggaacct 120
gctcatctgg atcaagaaga atttgctaaa agagcggcca gagttgttca tccagggaga 180
cagcgtgcgg ccaggaattc tggtgctgat taacgatgcc gactgggagc tactgggtga 240
gctggactac cagcttcagg accaggacag cgtcctcttc atctccactc tgcacggcgg 300
ctgagggccc ttctctgggc ctgggcaccc ttagagggga gaacgaagca atcagacatc 360
cccttgggcc ctgcttccag gtctccctgt ccccccttgcc tgccttcttc cctgctctgt 420
cccctaagct ccctccaggc agggaaaaga ggccaggtgc taaaaatgag cctttctcaa 480
gcaccg 486

<210> 62
<211> 227
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 37
<223> n = A,T,C or G

<400> 62
tcancaccat gaggcccaac acacacagat cagatgntca aatttcagat cttaccatca 60
tccaacttaa actgtttctc cctcccagtt gtcaggagga agaagaccta gctttagcac 120
aagcactgtc agccagtgag gcagaatacc agcggcagca ggtatgaggc tgggctgaag 180
atatatgctg cagtggaagg gaggaagaag tcagggatgg gggttct 227

<210> 63
<211> 166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 43, 62, 64, 70, 73, 91, 92, 94, 101, 105, 120, 143
<223> n = A,T,C or G

<400> 63
ntaactaaag gagctggttg catctgtctg tgcggatgga ganttctttt atctgacacc 60
angnctccan ccncactgaa acaaggcatt nntntacaga nctcnactaa aacccctttn 120
cattaggcta ctccacttcc ttnccctcat acctacccca cctcgg 166

<210> 64
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 6, 106, 116, 147, 178
<223> n = A,T,C or G

<400> 64
acccnnggggg gcttgtagca cattttaaaa tcacagttat aataatgtct ctcagctaaa 60
gacactacca catccagatt ctcttgcaag ccatctacag attcanggat gaccgnttca 120
ctaggcttat tatatttttt caatttnttc tcaaatacaa aacgcaccaa tttctgtnct 180
tcattacaca gcttgttaag gggt 204

<210> 65
<211> 425
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 25, 39, 65, 415, 417
<223> n = A,T,C or G

<400> 65
ggttcgcggg cgaggaacat agttntggaa attatttgng gtaaggaaat atgggttact 60
ccagntgcat ttctcagaca ataaagtggt gcatccatgc tacctcctac tttgtcaaca 120
aagatgctat ttacccttta cattttgta tcataataga ttttaaaaat ctaatgttct 180
ttattgcaag acattctttt gttaacaggt ttgtttcttt ttaatgtttt acctaaaatt 240
tgacatgctt acaggacagg tttgcctctt actttattta acattgtaga aatgtaatta 300
ataaacaatg ctcactacac agtttagaat agacgctctc atttatatta tcttccaaat 360
ttgatcagtt agcaaaactt aatacaccaa ttaaaatatt tctacatatg agaangntca 420
cactc 425

<210> 66
<211> 132
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 19, 108, 115
<223> n = A,T,C or G

<400> 66
tancctgacc acgggcacna ttgctgtgac tcaaactctc cctaatgctg cctataataa 60
ccgcttttca tatgctaatg ttgcttggca agatattgac tttgctgngg atganaatgg 120
attgcgggat at 132

<210> 67
<211> 136
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 46, 90, 97
<223> n = A,T,C or G

<400> 67
tgngcataat acagtggggg gggcattata caaactctgc tatacngctg atctttagac 60
ctaattgatc ttgcatacta taattctatn ccaattngac aactccctat ttcctcattc 120
actcccttcc tccttt 136

<210> 68
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 70
<223> n = A,T,C or G

<400> 68
aattcgccct ttcgagcggc cgcccgggca ggtactcatt ggtgaccaaa atctggtgac 60
accatctttn atgttctttg ccatattctt aaatgcctgg caaacagtag atatttacca 120
gatgaatatg acattaaaaa aataaatttc aagagattga gattctttag ccaagttgag 180
ggactacatc attttgaagc actctagaag ggggatgtga ttaaatgtga ctgcatgcct 240
gggctggctg cttctaggta tagagctgtg ttaaggcgtg ggaataggag agcaatgccc 300
tagggaaaag agggcactag gggaaacaat ggttgcagtg cactgcagaa tgaccaatgg 360
cacctacttc cagagttttc cttcaactaa aaagagatgg cattttctta tgattcagta 420
accgcattac ttacatcaac attatggttg ctatagacaa gcctaggtag ctagcctcta 480
tttacatcat cccactaagg gtatccaaac cacctcggcc gcgaccacgc taagggcg 538

<210> 69
<211> 248
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 38, 229, 242
<223> n = A,T,C or G

<400> 69
aattcgccct tagcgtggtc gcggccgagg taccaaanca agaaccatat aaatgatgcc 60
tagggacaag aaagaggaac aattctatag cgcacaataa aggaaaccta agaatgggag 120
ttacaaatag taaagaagct ttttttttt ttttaattta aagttttttt atgtaagttt 180
tcccacatga tggggccttg ttttgcaggt tgatgaacaa ctacacccng aaaactacta 240
tngttaaa 248

<210> 70
<211> 262
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 256
<223> n = A,T,C or G

<400> 70
aattcgccct tagcgtggtc gcggccgagg tacctcccca cccaggcctc gctccttctc 60
cacggtttgc agggcccaca tggcagctgt ggtgcggggt tccagccagc gggcgttgac 120
agtggccagc gtaaggctca ggaacagcag gtaaagctgg ctggcctccc agaatgtgag 180
ctgagcccaa gcatgctgtg aagccaagat gcagaggttg atgaaggcac agcccatgga 240
gatgtggaag cagaanggga aa 262

<210> 71
<211> 242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38, 40, 88, 93, 231, 236
<223> n = A,T,C or G

<400> 71
aattcgccct tagcgtggtc gcggccgagg tattcctnan aaccgtggcc ttatgtagca 60
tcatggtgaa aactccgtat cgcccttngc ttntgacttc atatcttact ttccaaggcc 120
gaattctttc attgtcttct cttcaccaga ttcccaacat tatcaattct ggctcctaga 180
agtgtgctat ggcaaactaa tttgcaagca ttaagggtgg aagtggaatc ncaatnaaca 240
ga 242

<210> 72
<211> 139
<212> DNA
<213> Homo sapiens

<400> 72
aattcgccct tagcgtggtc gcggccgagg taaaaaaaaa aaccagccaa aaccacaact 60
ttttactgaa gtgtaatgta aatgctgtaa aaggcagtga aaggcacaag ggaggtggag 120
gggtaggaag ggtggaagc 139

<210> 73
<211> 845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 48, 71, 121, 162, 167, 169, 182, 203, 208, 265, 282, 324,
349, 380, 457, 525, 538, 543, 572, 601, 602, 625, 626, 628,
629, 651, 663, 674, 678, 679, 687, 699, 708, 709, 718, 720,
721, 722, 731, 746, 755, 756, 765, 770, 790, 803, 826
<223> n = A,T,C or G

<400> 73
ttttttttnt ttttttttnt tttgagttta aatgcatttt ttttttanac aacctacatg 60
acatgttttt nttaaaaaca atgcctccac tccaaataaa tcacagtcaa aataaatgaa 120
nagctcaaga tgacatcagt cccatttgtc ttaagtcctg gngttgngng gatgacaagc 180
anaagccagt tatgatgaca ggngatanat ccaaaataat tgccacattt gttaacattt 240
ttccatttct aaaccatcct taaanaaaat catatatggg gncacaccat cctcacggga 300
gtccaataga gcaaccatgc catntggatt catgttttca ccaataaana actggtagtt 360
tttgaaatta gcaaggatgn gcttgatttg ttctgcagcc cctgtcataa aaggttttac 420
tctttctggg ctctggtctt caagtttccc tttgatngat ttcatgtaat ctttgatgga 480
ccttcttgta ggcttctttt gtgaaacttg tttcctgcag gggganggttc atgacaanta 540
tcnaccccag gggattactg gggctttcgg tnccttcgcc ccctcggggg gccctttcaa 600
nngggggggc catttttccc ccccnnanng gagggccgga aggtccattc naaatggggt 660
ttnacccttt tttngggnnc ccttacnttg ggacccaant tttttttnnc cctttgcnan 720
nnctttтcga ngggggaaac aaaaancccc cgggnngccg cgggngaaan accttccccc 780
ggggaaatcn tttgtgaaaa aanggccggg ggaaaaaaaa aaattnтttt atttctcggg 840
ggctt 845

<210> 74
<211> 311
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33, 55, 61, 76, 107, 122, 131, 139, 152, 174, 176, 180, 190,
191, 195, 214, 216, 230, 231, 240, 259, 290, 311
<223> n = A,T,C or G

<400> 74
ttttttttnt ttttttttnt ttttttttnt ttngcttata aacatccttt attgnacata 60
nacaggggat actganaatg atcaagtaaa tggaattttg aacaggnaaa gaggaaacaa 120
anaattaagg natccctgng gaatagtgca anaaaggagg gccccaccca tagngntatn 180
tacaataggn nctcngggga aaggacccca aggngncaaa ccacaaatgn ntgaccaccn 240
caattttatg atcaaactnt acctctagca aggggtttca acaatcaagn tttatttaaa 300
tcattcgctc n 311

<210> 75
<211> 551
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 533, 540
<223> n = A,T,C or G

<400> 75
actgaaacct gacctctgac cccagaccac tggcccttcc cccgccctgt ggtgacttca 60
taaaggttac tagcttctcc cctggccttg agacccacac gatggccctg ctggctctgg 120
ccagtgccgt cccgtctgcc ctgctggccc tggctgtctt cagggtgccc gcctgggcct 180
gtctcctctg cttcacaacc tactctgagc gcctccgcat ctgccagatg tttgttggga 240
tgcggagccc caagcttgaa gagtgtgagg aggccttcac ggccgccttc cagggcctct 300
ctgacaccga aatcagtgag gagaccatcc acacttcatc agtgtcctgg ggaaggtgca 360
gagggagggc aggagaggcc cagagggtca ggctgaggga cagacagaga gaaacagtca 420
gaggagaaag gctcaaagac catgagaaca acagagactt agggacagga gagacacaga 480
caggggaaga cagcagggca aagactcaga gaggggagga tggagagtca ganaggggan 540
gatggagact c 551

<210> 76
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 54, 56, 400, 439, 474, 526, 565, 607, 608, 616, 655, 659,
694, 717
<223> n = A,T,C or G

<400> 76
gacacctgtg gctcttattt cctaggtggc ccgaggcagc cgggatgaca gctntnccca 60
ggaatcctgc tgcctgctga gaaacatggt cagcaagtcc cgctggaagc tcctggccat 120
gttggctctg gtcctggtcg tcatggtgtg gtattccatc tcccgggaag acaggtacat 180
cgagcttttt tattttccca tcccagagaa gaaggagccg tgcctccagg gtgaggcaga 240
gagcaaggcc tctaagctct ttggcaacta ctcccgggat cagcccatct tcctgcggct 300
tgaggattat ttctgggtca agacgccatc tgcttacgag ctgccctatg ggaccaaggg 360
gagtgaggat ctgctcctcc gggtgctagc catcaccagn tcctccatcc ccaagaacat 420
ccagagcctc aggtgccgnc gctgtgtggt cgtggggaac ggcaccggct tgcngaacaa 480
gctcactggg agatgccatc aacaagtacc gatgtgggtc attcanattg aacaatgccc 540
cagtggctgg ctatgagggt gacgnggggc tccaagaacc accatgcgtt tcttctaccc 600
tgaatcnncc cacttncacc ccaaagtagg aaaacaaccc cagacacact cctcntccnt 660
ggtaggcttg tcaagggaat gggactttcc actngggatt ggagacccat ccctgan 717

<210> 77
<211> 874
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 579, 588, 604, 611, 613, 623, 628, 630, 631, 655, 677, 681,
704, 735, 736, 738, 764, 767, 774, 782, 784, 814, 815, 837,
848
<223> n = A,T,C or G

<400> 77
tgctgggaga cggcgggatc tctttcgcca tggctgccgg gccgatctcc gagcggaatc 60
aggatgccac tgtgtacgtg gggggcctgg atgagaaggt tagtgaaccg ctgctgtggg 120
aactgtttct ccaggctgga ccagtagtca acacccacat gccaaaggat agagtcactg 180
gccagcacca aggctatggc tttgtggaat tcttgagtga ggaagatgct gactatgcca 240
ttaagatcat gaacatgatc aaactctatg ggaagccaat acgggtgaac aaagcatcag 300
ctcacaacaa aaacctggat gtaggggcca acattttcat tgggaacctg gaccctgaga 360
ttgatgagaa gttgctttat gatactttca gcgcctttgg ggtcatctta caaaccccca 420
aaattatgcg ggaccctgac acaggcaact ccaaaggtta tgcctttatt aattttgctt 480
catttgatgc ttcggatgca gcaattgaag ccatgaatgg gcagtacctc tgtaaccgtc 540
ctatcaccgt atcttatgcc cttcaagaaa gggactccna ggggtgangc gccattggct 600
cacnagccga ncnacttctt ggnagctnan naacccgctc tcccaggctg atggnccctc 660
ttcagcttgt ttgcagnggc ncctcctcca ccctttttgct cccnaccgtg tggtatcatc 720
attgggggtc tgggnntnct cccccaggca tgcctcctcc tggnttnttc cccnccccca 780
angnccccctc ctgggagccc tcccacctgg ggannccccc aggcatggcc ccccccncct 840
ttccctcngg gggctgcagg acatgggccc ccaa 874

<210> 78
<211> 887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 661, 704, 706, 725, 732, 733, 764, 767, 806, 824, 859, 874
<223> n = A,T,C or G

<400> 78
cggaaggaga cgtggcggcg gttgggccgg tgatacccgg gcgctttata gtcccgccgc 60
ctcctcctcc acctcctcct cctcctcctc tcctcctgga gcagaggagg ttgtggcggt 120
ggctggagaa agcggcggcg gaggatggag gaaggaggcg gcggcgtacg gagtctggtc 180
ccgggcgggc cggtgttact ggtcctctgc ggcctcctgg aggcgtccgg cggcggccga 240
gcccttcctc aactcagcga tgacatccct ttccgagtca actggcccgg caccgagttc 300
tctctgccca caactggagt tttatataaa gaagataatt atgtcatcat gacaactgca 360
cataaagaaa aatataaatg catacttccc cttgtgacaa gtggggatga ggaagaagaa 420
aaggattata aaggccctaa tccaagagag cttttggagc cactatttaa acaaagcagt 480
tgttcctaca gaattgagtc ttattggact tacgaagtat gtcatggaaa acacattcgg 540
cagtaccatg aagagaaaga aactggtcag aaaataaata ttcacgagta ctaccttggg 600
gaatatgttg gccaagaacc ttctatttga aaaagaacca agaaagcaga agaaaaggaa 660
naatcaaatg aagattcccc acttaaaaaa tatccgaagg gtcnanaatg acacccatta 720
cttantcctt gnnggggaat gggggaaaaa tgggtcccac cctntgntag gttttggaaa 780
aacaagaaac cccgggcccc cagaanacaa aagataacct gggnggaatg gtaaccatta 840
atggtccaat tcccttggna aattcttaaa agcnattgga aaaaatt 887

<210> 79
<211> 640
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41
<223> n = A,T,C or G

<400> 79
ctcaattttc tgatcagggt gagcatcaaa ctcaaactac nccctgatcg gcgcactgcg 60
agcagtagcc caaacaatct catatgaagt caccctagcc atcattctac tatcaacatt 120
actaataagt ggctccttta acctctccac ccttatcaca acacaagaac acctctgatt 180
actcctgcca tcatgaccct tggccataat atgatttatc tccacactag cagagaccaa 240
ccgaaccccc ttcgaccttg ccgaagggga gtccgaacta gtctcaggct tcaacatcga 300
atacgccgca ggccccttcg ccctattctt catagccgaa tacacaaaca ttattataat 360
aaacaccctc accactacaa tcttcctagg aacaacatat gacgcactct cccctgaact 420
ctacacaaca tattttgtca ccaagaccct acttctaacc tccctgttct tatgaattcg 480
aacagcatac ccccgattcc gctacgacca actcatacac ctcctatgaa aaaacttcct 540
accactcacc ctagcattac ttatatgata tgtctccata cccattacaa tctccagcat 600
tccccctcaa acctaaaaaa aaaaaaaaaa gggcgggcgt 640

<210> 80
<211> 982
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 9, 10, 39, 475, 544, 555, 587, 600, 604, 623, 636, 653,
658, 661, 665, 674, 677, 689, 697, 699, 701, 702, 705, 713,
733, 737, 740, 741, 747, 750, 757, 763, 768, 771, 786, 794,
795, 802, 803, 804, 805, 806, 812, 823, 824, 827, 828
<223> n = A,T,C or G

<221> misc_feature
<222> 835, 840, 842, 862, 863, 867, 872, 875, 878, 893, 898, 907,
908, 916, 923, 960, 972
<223> n = A,T,C or G

<400> 80
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tctgctctgt aagacaggca atgggctggc tcatgcttat gtcaagctgg aggttaaaga 120
gagggacctg acagacatct acttgctgcg ctcctcaccc acctgctctg gctcaaggct 180
gatggcaatc tgctgcgaag tgcccagatg aatgaactgc cctacctgca gattgctagt 240
tttgcttata accagattac tgacactgaa ggcatctctc atcctcgtct tgaaaccctg 300
aatctcaaag ggaacagcat ccacatggtg acaggtctgg accccgagaa gttgatcagc 360
ctgcacacag tggagcttcg ggggaaccag ctggaaagca ccctgggaat caatcttcct 420
aagctgaaga acctctacct ggtagctcac tgggtcagag ggtggtgcaa ggaanagggc 480
actgcctggg gggtcaggat gcctgctttc tagtagggct cagctactaa cttcatcatt 540
atgntaataa ctggnattta ttatcaagac ccttagttgg gttccanaat gcctgggggn 600
aaancaccag cccaccctaa gcnaggggct ggatanatat tataaatggg ggnggganaa 660
naacnagaag gatnaanttt acccttgana ccagggnang nnaanccaaa aantggggcc 720
cattaatttg gangggnacn naaccantcn gggtctnggg ggnaaaangg ntttttaagg 780
aaaaanccct tccnntttaa annnnnnggg gnttttttctt ttnnagnntt ttttnccccn 840
cncccccccc gaaccgaaat tnngttnacc gntcnccnaa tttttccggg ggncccanaa 900
aggggtnngg gggggngttt ttnccccctt accgccccag tgtgggtgga aacccccccn 960
gtgggggggg gncccaaaa tc 982

<210> 81
<211> 885
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> 7, 320, 343, 346, 374, 385, 397, 402, 404, 405, 406, 415,
417, 425, 430, 448, 449, 455, 468, 469, 480, 485, 501, 502,
525, 540, 541, 542, 544, 545, 554, 564, 565, 573, 577, 578,
580, 582, 587, 607, 608, 616, 620, 623, 635, 636, 644
<223> n = A,T,C or G

<221> misc_feature
<222> 648, 656, 657, 665, 669, 673, 674, 683, 692, 693, 698, 713,
715, 717, 718, 728, 730, 747, 752, 755, 756, 758, 759, 766,
772, 773, 774, 779, 785, 790, 797, 801, 805, 807, 826, 831,
843, 870
<223> n = A,T,C or G

<400> 81
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ccctttcact tctgagtccc agaggttacc caaggcaccc ctctgacatc cggcctgctt 120
cttctcacat gacaaaaact agcccccatc tcaatcatat accaaatctc tccctcacta 180
aacgtaagcc ttctcctcac tctctcaatc ttatccatca tagcaggcag ttgaggtgga 240
ttaaaccaaa cccagctacg caaaatctta gcatactcct caattaccca cataggatga 300
ataatagcag gtctaccgtn caacccctaca tacccattct tanttnaact attaatataa 360
tcctaactac tacnggattc ctacnactca ccttaanctc cngnnnccag gaccntncta 420
ctatntcggn acctgaaaca ggttaacnng actancacct ttaattcnnt ccccctcctn 480
tcctnagaag gcctgccccg nntaaccggt ttttttgccc aaaanggggc ccatttttтn 540
nnannaaatt tccnccaaaa aaannncaaaa tangccnntn anttatntcc cccccccctt 600
ttcatanngg gccccnccan atnacccccc tttcnnttta aaancccntt taaaannttt 660
ttaancccnt tannccccct tanaattttt annacttncc ccccccttta aantntnnac 720
ccctttтnan ttcccccctt aattttntaa anccnnanng ggaaanagaa annnaaaang 780
ggccncggtn tttgganaaa ntatnanaaa aaaccccccc ccccentttt nttttтcccc 840
canaaaattt ttatgtgggg gccccttttn acccacgggg tttaa 885

<210> 82
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 76, 458, 467
<223> n = A,T,C or G

<400> 82
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gggcggcagg tgtgcncggc atccctgtca cgtggccgaa gagcctgggg cgcgcggacc 120
ctggcagggg gcggggcgca cgcaggccac acccacttca ggctcccacc cggtcgctgg 180
agaggggcca aggcctctgg aaggtccaac ctggagggtg gttcaaaggg gtgttgggca 240
ccctcaaatt aggggaaaat tggggagtac gctctccttc cccagggtgg aggttactac 300
aatcataagc ggggagccgg tgcccctgag gaaggagacc ctgagggaga taagatggag 360
gggctcggga ttccggggag ccccaagtcc cagcttgaaa cggtggagtc cgggcaaatg 420
agctctgagg acggcttctg ggcctggccg tgacccanat tgcagtngag aag 473

<210> 83
<211> 705
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 37, 38, 43, 655, 688, 702
<223> n = A,T,C or G

<400> 83
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gtttcctggg gctgccgccc acttcggtgg acccagcgct gaggcggcgg cggcgaggcc 120
caagaaataa gaagcggggc tggcggcggc ttgctcagga gccgctgggg ctggaggttg 180
accagttcct ggaagacgtg cggctacagg agcgcacgag cggtggcttg ttgtcagagg 240
ccccaaatga aaaactcttc ttcgtggaca ctggctccaa ggaaaaaggg ctgacaaaga 300
agagaaccaa agtccagaag aagtcactgc ttctcaagaa acccccttcgg gttgacctca 360
tcctcgagaa cacatccaaa gtccctgccc ccaaagacgt cctcgcccac caggtcccca 420
acgccaagaa gctcaggcgg aaggagcagc tatgggagaa gctggccaag cagggcgagc 480
tgccccggga ggtgcgcagg gcccaggccc ggctcctcaa cccttctgca acaagggcca 540
agccccgggc cccaggacac cgtagagcgg cccttctacg acctctgggc ctcagacaac 600
cccctggaca ggccgttggt tggccaggat gagtttttcc tgggagcaga cccangaaga 660
aaggagtgaa acggccagca cgcctgcnca cccaagcccg tncca 705

<210> 84
<211> 587
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 33, 40, 59, 65, 66, 67, 80, 83, 84, 96, 101, 103, 107,
113, 131, 143, 147, 163, 170, 171, 180, 182, 286, 560, 581
<223> n = A,T,C or G

<400> 84
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cgagnnnttg gattttgaan cgnngacccc ccaccnaaga ntnctantct atnacacttt 120
gagctggaag natccgaaag gcnttcntgt tgagacttta ganactgaan ntaaggatcn 180
anatatatca tatccccaag tggaatgaag aagaacgcaa aagaagagag cagcagaaac 240
atgccaaaga acaggaggag ctgaatgatg ctgtgggatt ttctanagtc attcacgcca 300
ttgctaattc gggaaaactt gttattggac acaatatgct cttggacgtc atgcacacag 360
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gtgttttccc cagactcttg gatactaaat tgatggccag cacacaacct tttaaggata 480
tcattaacaa cacatccctt gcgggaattg gaaaagcggt taaaaggaga ccccctttca 540
acccttctaa agttgaaagn ggccgaaagg ttttccaagg nattgac 587

<210> 85
<211> 620
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> 252, 499, 536, 540, 563, 564, 567, 581, 614
<223> n = A,T,C or G

<400> 85
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ggaaaccctg cccacactat gctcttaggc tttagccatc agaaggttac agtggactgc 120
gggaggctga cactaggctg aactcattaa ggaatgaatg ggaggtgaga agacacaggc 180
agcaagaatc gagtgtttca agaagtttgg ctctggtttg ccagaaatag gcaagtcagt 240
tttcgggggt gngaggaaaa agggttttgt gtcttttaa aatcctagac aggagagtca 300
caagcatgtt cacatgataa agaggaagaa agagaaagag gctggagatt ctgaaaagag 360
atcactggtg aggtctcaaa agagatggaa gaggatggtt atgtagttgg ggaaagaaat 420
tttaagaagg gaagaaaatt aaaatgagtg aaggtatacg ttagttttgt aaaagttatc 480
aatatctggc tgggcacant gctcacacct gtaatcccag cactttggga ggccanggcn 540
ggcagatcat ttgaggtcag ganntgnaga caagcctcca ncatggtaaa accctgtctc 600
tactaaaaat accnaaaatt 620